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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for

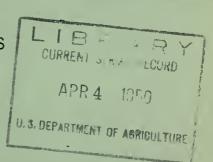
Arizona

Ву

Division of Irrigation, Soil Conservation Service

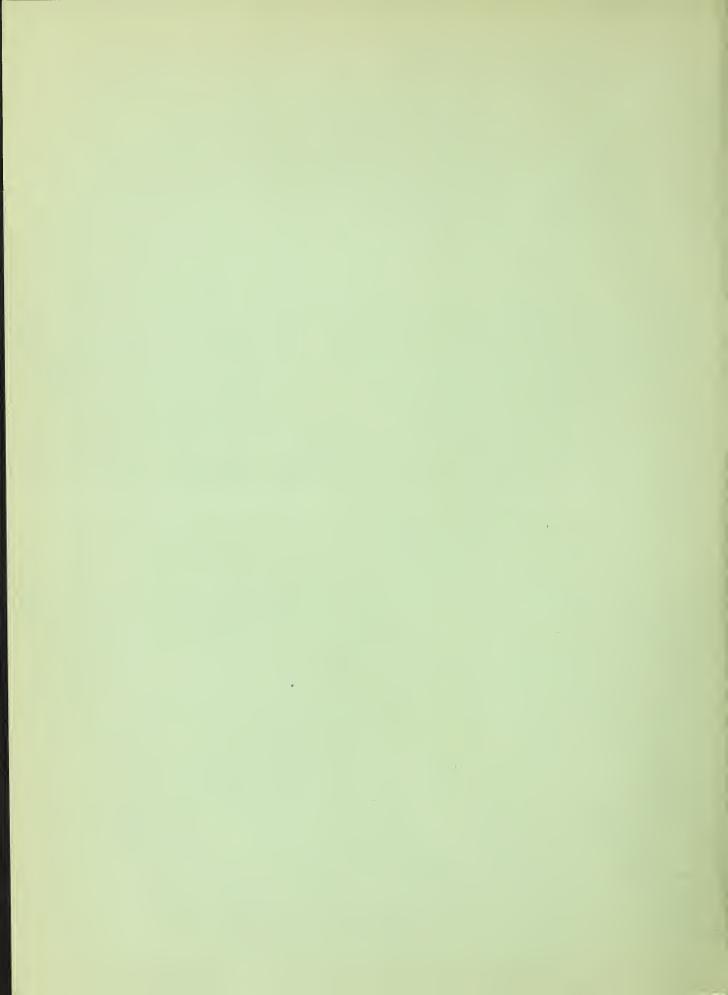
United States Department of Agriculture

Data included in this report were obtained by the agency named above in cooperation with the Federal, State and local organizations listed on the last page of this report.



As of

MAR. 15, 1950



FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND IRRIGATION WATER FORECASTS

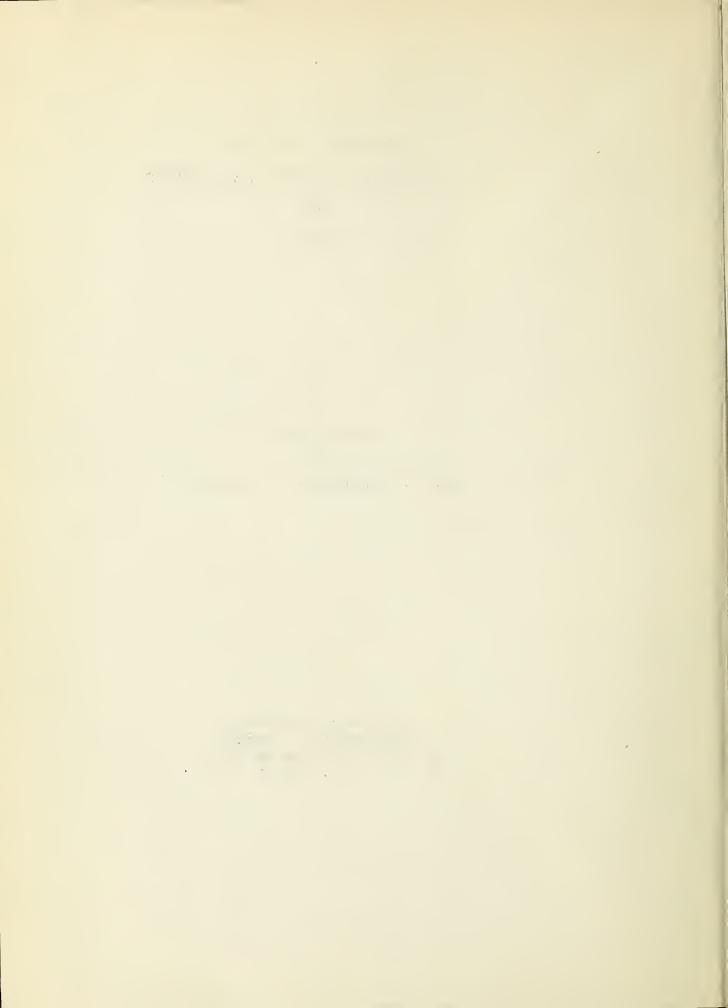
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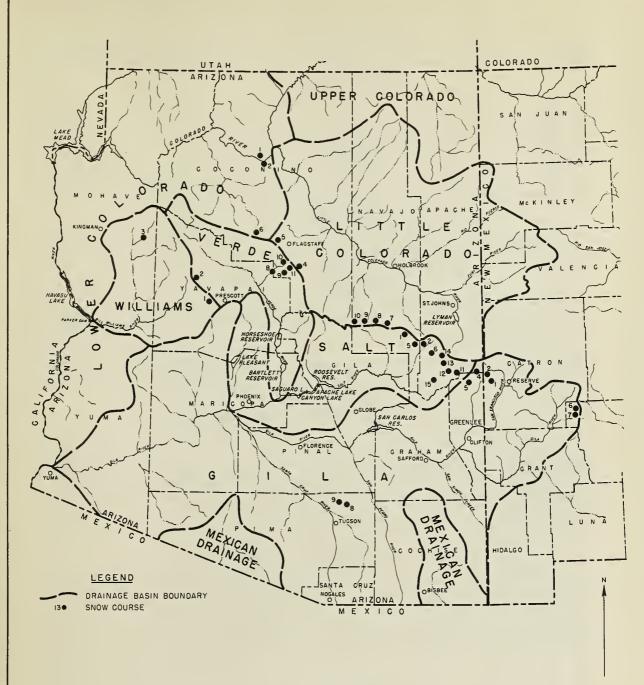
ARIZONA

Report Prepared by

Burke Peterson-Irrigation Engineer

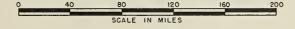
Division of Irrigation Soil Conservation Service Room 24, Post Office Building Phoenix, Arizona





ARIZONA COOPERATIVE SNOW SURVEYS

SNOW COURSES AND DRAINAGE BASINS
DECEMBER 1949



INDEX TO SNOW COURSES

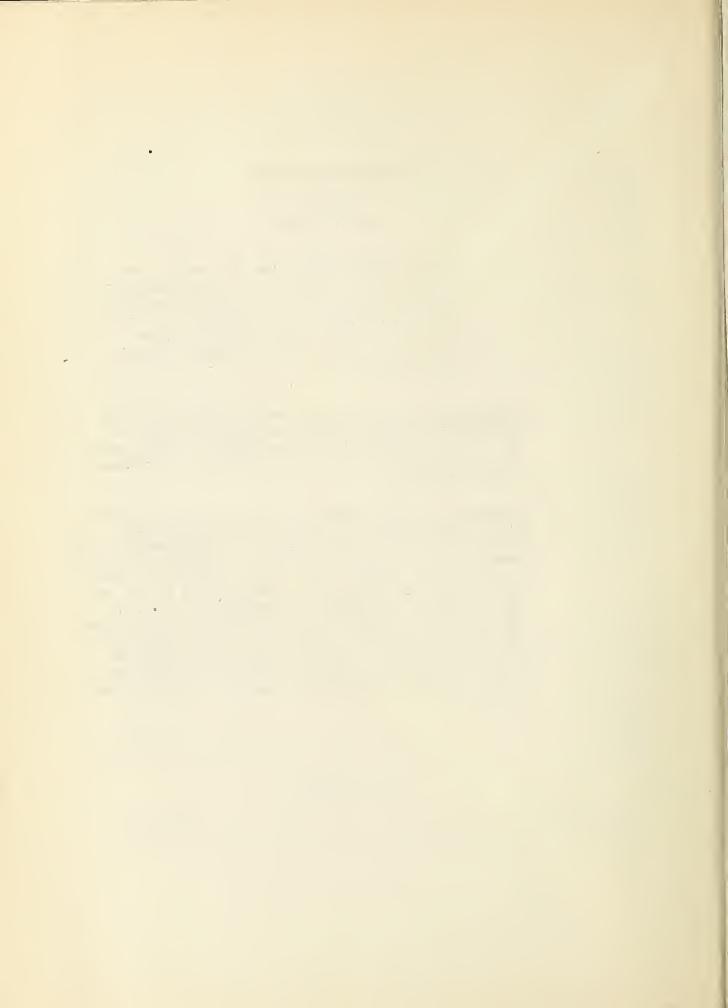
| NUME | ER NAME ELEVATION | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|
| | LITTLE COLORADO RIVER | | | | | | | | |
| 1. 2. 3. 4. 5. 7. 8. 9. 10. | Forest Dale 6,000 McMary 7,200 Nutrioso 8,500 Mormon Lake 7,350 Fort Valley 7,350 Gentry 7,600 Heber 7,600 Canyon Creek 7,600 Elk 7,600 Mormon Mountain 7,500 | | | | | | | | |
| | WILLIAMS RIVER | | | | | | | | |
| 1. 2. 3. | Iron Springs | | | | | | | | |
| , | GILA RIVER | | | | | | | | |
| 1. 2. 3. 4. 5. 6. 7. 8. | Frisco Divide (N.M.) 8,000 State Line (N.M.) 8,000 Nutrioso 8,500 Coronado Trail 8,000 Beaver Head 8,000 Taylor Creek (N.M.) 7,850 Inman (N.M.) 7,800 Rose Canyon 7,300 Bear Wallow 8,100 | | | | | | | | |
| VERDE RIVER | | | | | | | | | |
| 1. 2. 3. 4. 5. 6. 8. 9. 10. | Iron Springs 6,200 Camp Wood 5,700 Mingus Mountain 7,100 Morman Lake 7,350 Fort Valley 7,350 Chalender 7,100 Munds Park 6,500 Casner Park 6,930 Antelope Park 7,300 Mormon Mountain 7,500 | | | | | | | | |
| | SALT RIVER | | | | | | | | |
| 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. | Forest Dale 6,000 McNary 7,200 Nutrioso 8,500 Coronado Trail 8,000 Milk Ranch 7,000 McKay 8,250 Gentry 7,600 Heber 7,600 Canyon Creek 7,500 Elk 7,600 Big Lake Knoll 8,800 Maverick Fork 9,050 Baldy 9,000 Ft. Apache 9,000 Ft. Apache 9,000 Pacheta 1000 LOWER COLORADO RIVER | | | | | | | | |
| 1. 2. 5. 6. | Bright Angel 8,400 Grand Canyon 7,500 Fort Valley 7,350 Chalender 7,100 | | | | | | | | |
| • | | | | | | | | | |

WATER SUPPLY OUTLOOK

Arizona March 15, 1950

Precipitation Throughout the state precipitation has been well below normal. Soil moisture conditions on the Salt and Verde drainage are very good, while soil moisture conditions on the Gila drainage and southern ranges are poor.

Snow Cover The only snow of any consequence remaining in the state lies in the Big Lake area of the White Mountains and at the North Rim of the Grand Canyon. The snow cover at Big Lake still contains about 6 inches of water. There has been little melt. With a warm spell or warm rains in this area, a little runoff should result. However, with continued intermittant freezing and melting as has been the weather pattern, most of the water will go into the ground or evaporate. Snow cover has been very poor on the Gila watershed. There has been no increased reservoir storage in the San Carlos due to snow melt. The Verde drainage is generally bare of snow.



Runoff It appears that the peak runoff into the state's reservoirs from snow melt has occured. The Verde River has been steadily dropping from around 2500 cubic feet per second at the first of the month, to slightly over 200 second feet on this date. The Salt River has not peaked this season, but has remained constant between 400 and 600 cubic feet per second. Runoff has been so poor on the Gila River that the water users are drawing on storage in the San Carlos reservoir.

Reservoir Storage The total stored water in the reservoirs on the Salt River is 75% of normal and 135% of last year, while the stored water in the Verde reservoirs is slightly below normal and 45% of last year. The comparitively good storage in the Salt reservoirs is due to the good runoff of last year and not from runoff of this year.

San Carlos is storing 35% of normal and 35% of last year's storage at this time.

Lake Pleasant is storing 25% of normal. The total stored water in the reservoirs of the state is only 25% of capacity and 70% of normal.

Lake Mead contains 17,961,000 acre feet and Lake Havasu 662,000 acre feet.

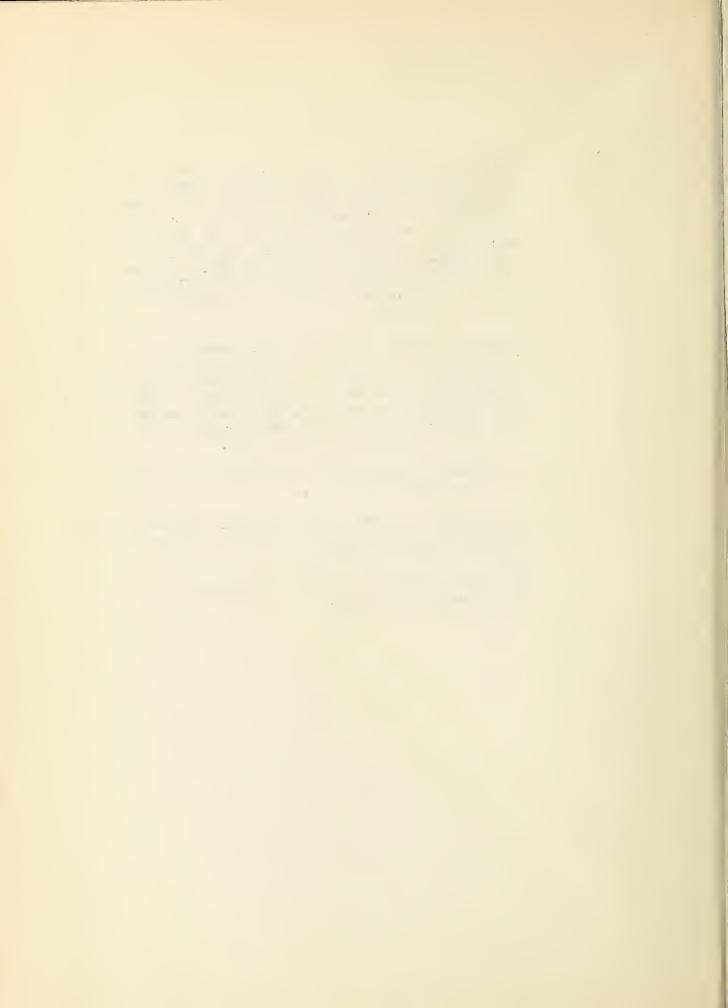
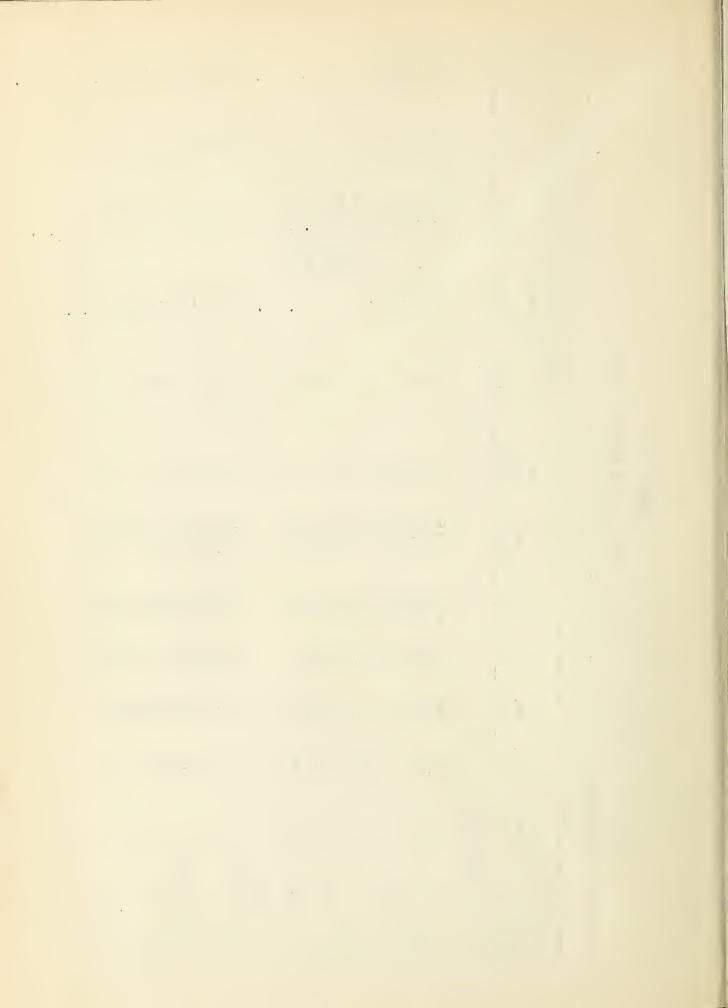


TABLE I

ARIZONA SNOW SURVEYS MARCH 15, 1950

| Filev. Survey (Inches) 1950 1949 1948 Record (Inches) 1950 1954 4:8 100 850 8.8 Record (Inches) 1950 1954 4:8 100 850 8.8 Record (Inches) 1950 1950 1950 1950 1950 1950 1950 1950 | TION | | | | | , | Date | Snow | Vater | SNOW COV | SNOW COVER MEASUREMENTS Water Content (Inches, Pas Same Approx, Date Years | إب | Av. Water |
|---|-----------------------|----|------|------|------------|-------|--------------|-------------------|-------|----------|--|--------------|---------------------|
| 6000 3/15 0 0.0 0.0 1.3 10 7200 3/15 0 0.0 0.0 4.1 10 8500 3/15 0 0 0.0 16.6 11.4 3 7350 3/15 0 0 0 16.6 11.4 3 7350 3/15 0 0 0 16.6 11.4 3 7550 3/15 0 0 0 16.6 11.4 3 7500 3/15 0 0 0 10.0 8.8 8000 3/17 0 0 0 2.9 5.6 10 8000 3/17 0 0 0 2.9 5.6 10 8000 3/15 0 0 0 8.8 6.1 10 8000 3/15 0 0 0 5.4 4.8 10 8000 3/15 0 0 0 5.4 6.1 10 8000 3/15 0 0 0 5.6 6.0 10 7850 3/15 0 0 0 1.3 2 7800 3/15 0 0 0 1.3 2 8100 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 8200 3/15 0 0 0.0 1.3 | Number Se | Se | Sec. | Twp. | Rge. | Elev. | of Survey | Depth (Inches) | 1950 | 1949 | 1948 | of Record | Content (Inches) |
| 21E 6000 3/15 0 0.0 0.0 4:1 10 23E 7200 3/15 0 0 0.0 4:1 10 30E 8500 3/15 0 0 0.0 4:1 10 8E 7350 3/15 0 0 0 16:6 11:4 3 15E 7500 3/15 0 0 0 8.8 | LITILE COLORADO RIVER | | | | | | | | | : | | | |
| 23E 7200 3/15 0 0.0 4.1 10 30E 8500 3/15 0 0 6.4 4.8 10 8E 7350 3/15 0 0 16.6 11.4 3 6E 7350 3/15 0 0 8.8 2.0 3 15E 7600 3/15 0 0 0 New Course New Course 15E 7500 3/15 0 0 New Course New Course 15E 7500 3/15 0 0 New Course New Course 15E 7500 3/15 0 0 0 New Course 16E 7500 3/15 0 0 0 New Course 16E 7500 3/15 0 0 0 New Course 16E 7500 3/15 0 0 0 0 0 0 10W 8000 3/15 <td>2</td> <td>2</td> <td></td> <td>N6</td> <td>21王</td> <td>0009</td> <td>3/15</td> <td>0</td> <td>0</td> <td>0.0</td> <td>1,3</td> <td>10</td> <td>0.3</td> | 2 | 2 | | N6 | 21王 | 0009 | 3/15 | 0 | 0 | 0.0 | 1,3 | 10 | 0.3 |
| 30E 8500 3/15 0 5.4 4.8 10 8E 7350 3/15 0 0 16.6 11.4 3 6E 7350 3/15 0 0 8.8 2.0 3 15E 7600 3/15 0 0 New Course New Course 15E 7500 3/15 0 0 New Course 14E 7600 3/15 0 0 New Course 8E 7500 3/15 0 0 New Course 8E 7500 3/15 0 0 0 New Course 8E 7500 3/17 0 0 0 New Course 8B 7500 3/15 0 0 0 New Course 8B 750 3/15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 14 | 14 | | 8N | 23E | 7200 | 3/15 | 0 | 0 | 0.0 | 4,1 | 10 | 1,5 |
| 8E 7350 3/15 0 16,6 11,4 3 6E 7350 3/15 0 0 8,8 2,0 3 15E 7600 3/15 0 0 0 New Course New Course 15E 7600 3/15 0 0 New Course New Course 14E 7600 3/15 0 0 0 New Course 15 0 0 0 0 New Course New Course 20W 8000 3/17 0 0 2,9 5,6 10 30E 8000 3/15 0 0 2,9 5,6 10 S 10W 7800 3/15 0 0 8,8 6,1 10 S 10W 7800 3/15 0 0 0 <td></td> <td>23</td> <td></td> <td>eN</td> <td>30正</td> <td>8500</td> <td>3/15</td> <td>0</td> <td>0</td> <td>5.4</td> <td>4,8</td> <td>10</td> <td>1,9</td> | | 23 | | eN | 30正 | 8500 | 3/15 | 0 | 0 | 5.4 | 4,8 | 10 | 1,9 |
| 6E 7350 3/15 0 0 8.8 2.0 3 15E 7600 3/15 0 0 New Course 3/15 0 0 New Course 0 0 New Course 0 0 New Course 0 0 0 New Course 0 <td></td> <td>13</td> <td></td> <td>18N</td> <td>8臣</td> <td>7350</td> <td>3/15</td> <td>0</td> <td>0</td> <td>16,6</td> <td>11,4</td> <td>જ</td> <td>9,3</td> | | 13 | | 18N | 8臣 | 7350 | 3/15 | 0 | 0 | 16,6 | 11,4 | જ | 9,3 |
| 15E 7600 3/15 0 New Course 15E 7500 3/15 0 0 New Course 15E 7500 3/15 0 0 New Course 14E 7600 3/15 0 0 New Course 8E 7500 3/15 0 0 New Course 20W 8000 3/17 0 0 2:9 5.6 10 21W 8000 3/17 0 0 4:7 5:1 10 30E 8000 3/15 0 0 4:7 5:1 10 30E 8000 3/15 0 0 5:4 4:8 10 5 10W 7850 3/15 0 0 8:8 6:1 10 5 10W 7800 3/15 0 0 8:8 6:0 10 5 16E 7300 3/15 0 0 0 0 0 0 5 16E 730 3.8 3.0 3.0 3.0 3.0 3.0 | 5 22 | 22 | | 22N | E E | 7350 | 3/15 | 0 | 0 | ω 8 | 2.0 | 3 | 3,6 |
| 15E 7600 3/15 0 0 New Course 15E 7500 3/15 0 0 New Course 14E 7600 3/15 0 0 New Course 14E 7600 3/15 0 0 1 New Course 14E 7600 3/15 0 0 2:9 5.6 10 20W 8000 3/17 0 0 2:9 5.6 10 30E 8000 3/15 0 0 8:8 6.1 10 30E 8000 3/15 0 0 8:8 6.1 10 30E 8000 3/15 0 0 0 5.6 6.0 10 30E 8000 3/15 0 0 0 1.3 2 30E 8000 3/15 0 0 0 1.3 2 316 0 0 0.0 1.3 2 316 0 0 0.0 1.3 2 316 0 0 3.8 3.0 2 | | 36 | | TIM | 15E | 7600 | 3/15 | 0 | 0 | | | | |
| 15E 7500 3/15 0 0 New Course 14E 7600 3/15 0 0 0 New Course 8E 7500 3/15 0 0 0 New Course 20W 8000 3/17 0 0 2.9 5.6 10 20W 8000 3/17 0 0 6.4 4.8 10 30E 8000 3/15 0 0 8.8 6.1 10 30E 8000 3/15 0 0 5.6 6.0 10 30E 8000 3/15 0 0 5.6 6.0 10 30E 8000 3/15 0 0 10 30E 8000 3/15 0 0 2.3 3 10W 7850 3/15 0 0 0 5.6 6.0 10 315 0 0 0 1.3 2 16E 7300 3/15 0 0 0 0.0 1.3 2 16E 8100 3/15 0 0 0 3.8 3.0 2 | | 28 | | 11N | 15瓦 | 2600 | 3/15 | 0 | 0 | | | | |
| 14E 7600 3/15 0 0 New Course 8E 7500 3/15 0 0 New Course 20W 8000 3/17 0 0 2:9 5.6 10 21W 8000 3/17 0 0 4.7 5.1 10 30E 8500 3/15 0 0 8:8 6.1 10 30E 8000 3/15 0 0 5.6 6.0 10 5 10W 7850 3/15 0 0 0 5.6 6.0 10 5 10W 7800 3/15 0 0 0 1.3 2.2 5 10W 7800 3/15 0 0 0 1.3 2 5 16E 7300 3/15 0 0 0 1.3 2 5 16E 7300 3/15 0 0 0 3.8 3.0 2 | | 18 | | NII | 15E | 7500 | 3/15 | 0 | 0 | | | | |
| 8E 7500 3/15 0 0 New Course 20W 8000 3/17 0 0 2.9 5.6 10 21W 8000 3/17 0 0 5.4 4.8 10 30E 8500 3/15 0 0 8.8 6.1 10 30E 8000 3/15 0 0 5.6 6.0 10 50E 8000 3/15 0 0 0 8.8 6.1 510W 7850 3/15 0 0 0 N.R. 2.2 510W 7800 3/15 0 0 0 1.3 2 516E 7300 3/15 0 0 0 3.8 3.0 2 | | 31 | | 11N | 14E | 7600 | 3/15 | 0 | 0 | | | | |
| 20W 8000 3/17 0 0 2.9 5.6 10 21W 8000 3/15 0 0 4.7 5.1 10 30E 8500 3/15 0 0 8.8 6.1 10 30E 8000 3/15 0 0 5.6 6.0 10 10W 7850 3/15 0 0 N.R. 2.2 7 10W 7800 3/15 0 0 N.R. 2.3 3 16E 7300 3/15 0 0 0.0 1.3 2 16E 8100 3/15 0 0 3.8 3.0 2 | 11 14 | 14 | | 18N | 8至 | 7500 | 3/15 | 0 | 0 | | | | |
| 20W 8000 3/17 0 0 2;9 5,6 10 21W 8000 3/17 0 0 4;7 5;1 10 30E 8500 3/15 0 0 8;8 6,1 10 30E 8000 3/15 0 0 8;8 6,0 10 30E 8000 3/15 0 0 N.R. 2,2 7 10W 7800 3/15 0 0 N.R. 2,3 7 16E 7300 3/15 0 0 0 1,3 2 16E 8100 3/15 0 0 3,8 3,0 2 | | | | | | | | | | , | | | |
| 21W 8000 3/17 0 0 4,7 5,1 10 30E 8500 3/15 0 0 8,8 6,1 10 30E 8000 3/15 0 0 8,8 6,0 10 30E 8000 3/15 0 0 N,R, 2,2 7 10W 7850 3/15 0 0 N,R, 2,3 7 16E 7300 3/15 0 0 0,0 1,3 2 16E 8100 3/15 0 0 3,8 3,0 2 | . 31 | 31 | | 68 | 20W | 8000 | 3/17 | 0 | 0 | 5,9 | 5.6 | 10 | 1.7 |
| 30E 8500 3/15 0 0 5,4 4,8 10 30E 8000 3/15 0 0 8,8 6,1 10 30E 8000 3/15 0 0 N,R, 2,2 7 10W 7800 3/15 0 0 N,R, 2,3 7 16E 7300 3/15 0 0 0 1,3 2 16E 8100 3/15 0 0 3,8 3,0 2 | | 9 | | 89 | SIW | 8000 | 3/17 | 0 | 0 | 4.7 | 5,1 | 10 | 8.0 |
| 30E 8000 3/15 0 0 8;8 6,1 10 30E 8000 3/15 0 0 5,6 6;0 10 10W 7850 3/15 0 0 N,R, 2,2 7 16F 7300 3/15 0 0 0,0 1,5 2 16E 8100 3/15 0 0 3,8 3,0 2 | 3 23 | 23 | | N9 | 30回 | 8500 | 3/15 | 0 | 0 | 5,4 | 4.8 | 10 | 1,9 |
| 30E 8000 3/15 0 0 5.6 6.0 10 10W 7850 3/15 0 0 N.R. 2.2 7 10W 7800 3/15 0 0 0.0 1.3 3 16E 8100 3/15 0 0 3.8 3.0 2 | | 56 | | 2N | 30臣 | 8000 | 3/15 | 0 | 0 | 8 | 6.1 | 10 | 3°6 |
| 10W 7850 3/15 0 0 N.R. 2.2 7 10W 7800 3/15 0 0 N.R. 2.3 3 16E 7300 3/15 0 0 0 0 0 16E 8100 3/15 0 0 3.8 3.0 2 | 5 13 | 13 | | 4N | 30臣 | 8000 | 3/15 | ۵ | 0 | 5,6 | 0.9 | 10 | 3.0 |
| 10W 7800 3/15 0 0 N.R. 2.3 3 16E 7300 3/15 0 0 0.0 1.3 2 16E 8100 3/15 0 0 3.8 3.0 2 | | 20 | | 108 | low | 7850 | 3/15 | 0 | 0 | N.R. | 2.2 | 2 | 0.4 |
| 16E 7300 3/15 0 0 0.0 1.3 2 16E 8100 3/15 0 0 3.8 3.0 2 | | 9 | | 118 | low | 7800 | 3/15 | 0 | 0 | N.R. | 2,3 | 83 | ω • |
| 16E 8100 3/15 0 0 3 _* 8 3 _* 0 2 | | 15 | | 123 | 16E | 7300 | 3/15 | 0 | 0 | 0.0 | 1,3 | ≈ | 0.7 |
| | | 9 | | 128 | 16E | 8100 | 3/15 | 0 | 0 | 3,8 | 3,0 | _∞ | 3.4 |



ARIZONA SURVEYS MARCH 15, 1950

| | | Avg Majer Content | (Inchus) | | • | 6.0 | 0.2 | 0.0 | | | 0,3 | 1.5 | 1,9 | 3,6 | 9.0 | | | | | | | | | |
|-------------------------|-----------------------|----------------------|-------------|--------------------------------|----------------|--------------|-----------|--------------|---|------------|-------------|--------|----------|----------------|------------|------------|------------|--------------|------------|----------------|---------------|------------|------------|------------|
| SEMENTS | Past Reserv | Years A | Record (| | | 4 | 4 | 4 | | | 10 | 10 | 10 | 10 | თ | | | | | | | | | |
| SNOW COVER MEASUREMENTS | les) | ate | 1948 | | * | 0,0 | 0.0 | 0.0 | | • | 1,3 | 4,1 | 4,8 | 6,1 | 1.2 | | | | | | | | | |
| SNOW COV | Water Content (Inches | Same Approx. Date | 1949 | | | 3,4 | 0.8 | N.R. | | , | 0.0 | 0,0 | 5,4 | 8,8 | 0.0 | New Course | New Course | New Course | New Course | New Course | New Course | New Course | New Course | New Course |
| | Water Co | Sar | 1950 | | | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | | | | | 7,4 | | | | 0 |
| | | Snow Depth | (Inches) | | | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 20,4 | 20.2 | 8.4 | 8.7 | 0 |
| | | Date of | Survey | | | 3/13 | 3/15 | 3/15 | | | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 |
| | | Elev. | | | - | 6200 | 5700 | 2000 | | | 0009 | 7200 | 8500 | 8000 | 7000 | 7600 | 0092 | 7500 | 7600 | 8800 | 9050 | 0006 | 0006 | 7800 |
| | | Rge. |) | | | 3W | 6W | MIT | | | 21E | 23E | 30E | 30E | 23压 | 15压 | 15E | 15E | 14E | 28臣 | 27E | 27E | 27E | |
| | | Twp. Rge. | | | | 14N | 16N | SIN | | | N6 | 8N | eN | 5N | 8N | LIN | 111 | 111 | NIL | 2N | eN | NZ. | 7N | |
| | | Sec. | | | | 22 | 83 | 16 | | | 2 | 14 | 23 | 56 | 28 | 36 | 28 | 18 | 31 | 2 | 13 | 28 | 18 | |
| ION | | Number | ; | | | | 2 | 3 | | | 1 | 2 | 23 | 4 | 2 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 14 | 15 |
| LOCATION | | DRAINAGE BASIN and | SNOW COURSE | CICETAL C. SORES & T. T. T. T. | WILLIAMS KIVER | Iron Springs | Camp Wood | Willow Ranch | 4 | SALT RIVER | Forest Dale | McNary | Nutrioso | Coronado Trail | Milk Ranch | Gentry | Heber | Canyon Creek | Elk | Big Lake Knoll | Maverick Fork | Baldy | Ft. Apache | Pacheta |

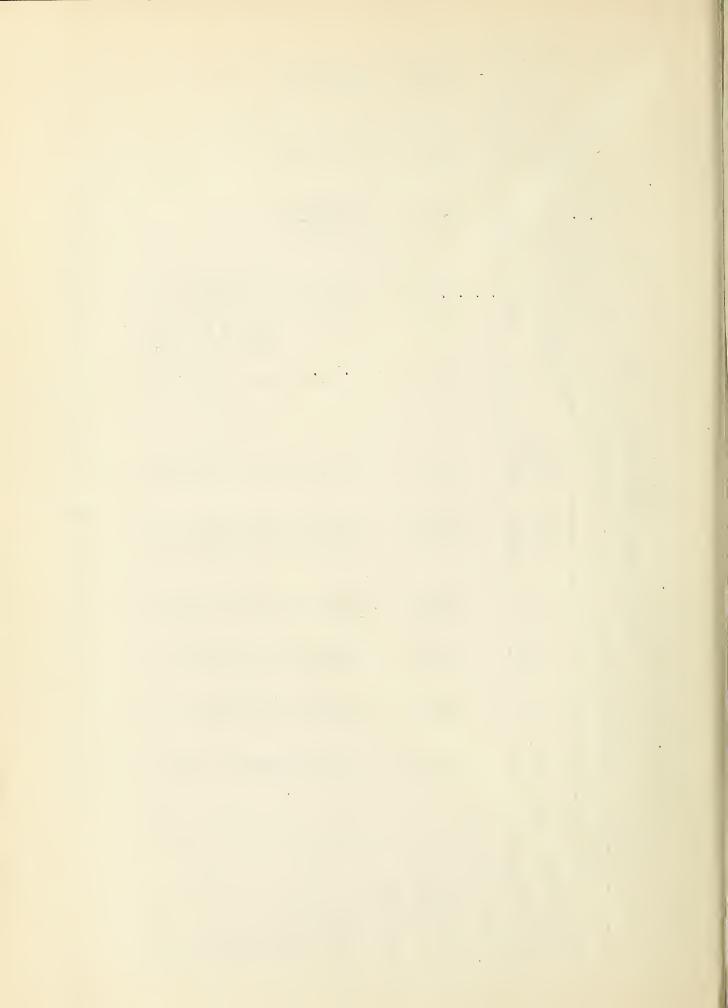


TABLE I

ARIZONA SNOW SURVEYS MARCH 15, 1950

| | scord | Av. Water | (Inches) | | | 6.0 | 0.2 | 1,2 | 9.3 | 3,6 | 4.2 | | | | | | 10.9 | 2,4 | 3,6 | 4.2 |
|-------------------------|-----------------------|-------------------|--------------|----------------|------------|--------------|-----------|------------|-------------|-------------|-----------|------------|-------------|---------------|------------|----------------------|--------------|--------------|-------------|-----------|
| URBEITENTS | Past Record | Years | Record | | | 4 | 4 | 82 | ಣ | го | ಣ | | | | | | 23 | го | го | B |
| SNOW COVER MEASUREMENTS | ches) | Date | 1948 | | , | 0.0 | 0.0 | 2,3 | 11,4 | 5.0 | 4.2 | New Course | New Course | New Course | New Course | , | 7.8 | 1,5 | 2,0 | 4.5 |
| SNOW C | Water Content (Inches | Same Approx. Date | 1949 | | | 3.4 | 8.0 | N.R. | 16,6 | 8.8 | 8,4 | Ne | Ne | Ne | Ne | , | 17,2 | 5.6 | 8.8 | ₹• |
| | Water Co | Sam | 1950 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ě | 11,3 | 0 | 0 | 0 |
| | | Snow | (Inches) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 32,6 | 0 | 0 | 0 |
| | | Date | of Survey | | | 3/13 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | 3/15 | | 3/15 | 3/15 | 3/15 | 3/15 |
| | | | Elev. | | | 6200 | 5700 | 7100 | 7350 | 7350 | 7100 | 6500 | 6930 | 7300 | 7500 | | 8400 | 7500 | 7350 | 7100 |
| | | | кве. | | | 311 | 6W | 2正 | 8E | EE | 3臣 | 7E | 8臣 | 8E | 图图 | | 3E | 4E | E | 3臣 |
| | | , E | • dw.T | | | 14N | 16N | 15N | 18N | 22N | 22N | 18N | 18N | 19N | 18N | | 33N | 30N | 22N | 22N |
| ! | | 5 | sec. | | | 22 | 23 | 23 | 13 | 22 | 27 | 7 | 19 | 53 | 14 | | 34 | 21 | 22 | 27 |
| NOI | | , | Number | | | - | 2 | 23 | 4 | വ | 9 | 8 | 0 | 10 | 11 | RIVER | 1 | 8 | വ | 9 |
| LOCATION | | AGE BAST | and COURSE | ם של של מידידו | WHATU HOW! | Iron Springs | Camp Wood | Lingus Mt. | Mornon Lake | Fort Valley | Chalender | Munds Park | Casner Park | Antelope Park | Mormon Mt. | LOWER COLORADO RIVER | Bright Angel | Grand Canyon | Fort Valley | Chalender |

• . W. 1

TABLE 2
STATUS OF RESERVOIR STORAGE, MARCH 15, 1950

| BASIN and RE STREAM | | USABLE APACITY 1000 A.F | | OS ACRE FI | EET IN ST | | out March 15 |
|---------------------------|-------------|-------------------------------|--------|------------|-----------|--------|--------------------------|
| | | | 1950 | 1949 | 1948 | 1947 | 10 yr. Avg. 1939-1948 |
| Agua Fria | Lake Pleasa | nt 179 | 7 | 28 | 1 | 3 | 28 |
| Colorado | Lake Havasu | . 685 | 662 | 576 | 593 | 621 | 559 |
| Colorado | Lake Mead | 27,935 | 17,961 | 17,950 | 18,888 | 16,431 | 19,312 |
| Gila | San Carlos | 1,200 | 89 | 242 | 6 | 18 | 241 |
| Verde | Bartlett | 179 | 70 | 95 | 17 | 24 | 73 ^a |
| Verde | Horseshoe | 67 | 2 | 67 | 1 | 10 | 7b |
| Salt | Roosevelt | 1,382 | 311 | 282 | 38 | 101 | 543 |
| Salt | Apache | 245 | 225 | 120 | 158 | 232 | 191 |
| Salt | Canyon | 58 | 44 | 33 | 20 | 39 | 41 |
| Salt | Saguaro | 70 | 44 | 32 | 31 | 45 | 34 |
| | | | | | | | |

a - Average for years 1941 through 1948

b - Average for years 1946 through 1948

LIST OF SNOW SURVEYORS

| CALOUT A DITTO CITY | ATTO TIME - A. |
|--|------------------------|
| SNOW COURSE | SURVEYOR |
| Elk | . T. A. Gerwitz |
| Canyon Creek • • • • • • • | • T • A • Gerwitz |
| Gentry | . T. A. Gerwitz |
| Heber • • • • • • • • | . T. A. Gerwitz |
| Forest Dale | . W. E. Fair |
| McNary | . W. E. Fair |
| Milk Ranch | . W. E. Fair |
| Casner Park | . M. F. Greaves |
| Munds Park | . M. F. Greaves |
| | |
| Antelope Park | . M. F. Greaves |
| Mormon Mt | . M. F. Greaves |
| Mormon Lake | • M. F. Greaves |
| Mingus Mt | . H. Linn |
| Iron Springs | • E • Saxby |
| Camp Wood | . Mrs. C. C. Merritt |
| Willow Ranch | . Tiny Miller |
| Grand Canyon | . Sylvester, James |
| Bright Angel | . Folsom, Hershey |
| Ft. Valley | . A. P. Loska |
| Chalender | . V. J. Schroeder |
| Bearwallow | . W. h. Hughes |
| Rose Canyon | W. H. Hughes |
| Pacheta | J. Thorsen |
| | |
| | • Fredrickson, Gerwitz |
| Maverick Fork | Fredrickson, Gerwitz |
| | • Fredrickson, Gerwitz |
| Ft. Apache | • Fredrickson, Gerwitz |
| Taylor Creek | • F. M. Inman |
| Inman | • F. M. Inman |
| Coronado Trail | . R. L. Diggs |
| Nutrioso | . R. L. Diggs |
| State Line | . Liedeman, Shumate |
| | . Liedeman, Shumate |
| | Jess Burke |
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The following organizations cooperate in the Arizona snow survey work:

FEDERAL

Department of Agriculture
Forest Service
Apache Forest
Coconino Forest
Coronado Forest
Gila Forest
Kaibab Forest
Frescett Forest
Sitgreaves Forest
Southwestern Forest and Range Expt.
Station, Fort Valley, Arizona
Soil Conservation Service
Division of Irrigation

Department of Commerce
Weather Bureau
Arizona Section

Department of Interior
Bureau of Reclamation
Region III
Geological Survey
Arizona District
Indian Service
Fort Apache Reservation
National Park Service
Grand Canyon National Park

Gila Water Commissioner Safford, Arizona

IRRIGATION PROJECTS

Salt River Valley Water Users Association Phoenix, Arizona

San Carlos Irrigation and Drainage District Coolidge, Arizona

Southwest Lumber Mills, Inc., McNary, Arizona

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



(PMGC)

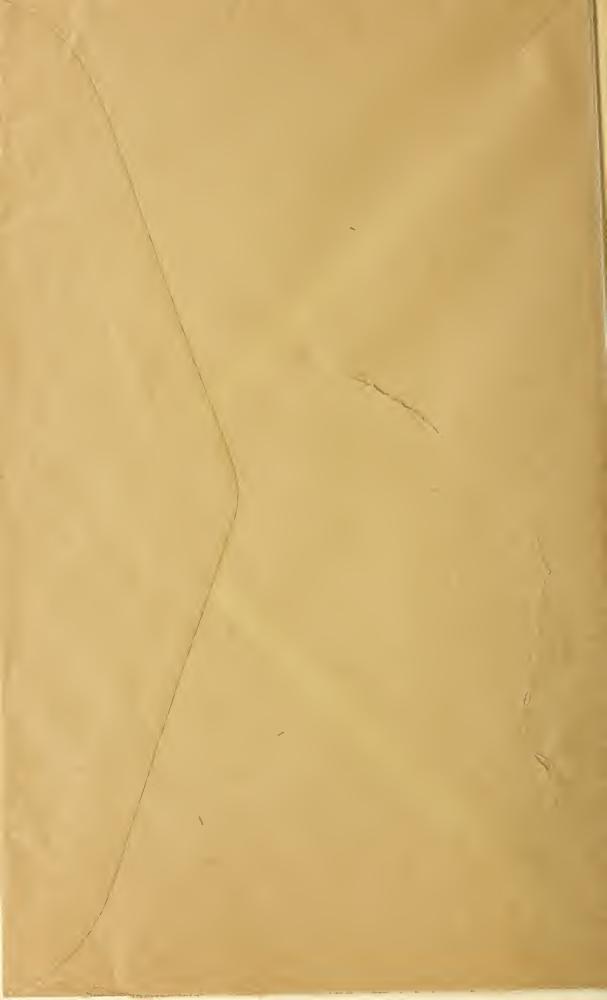
OFFICIAL BUSINESS

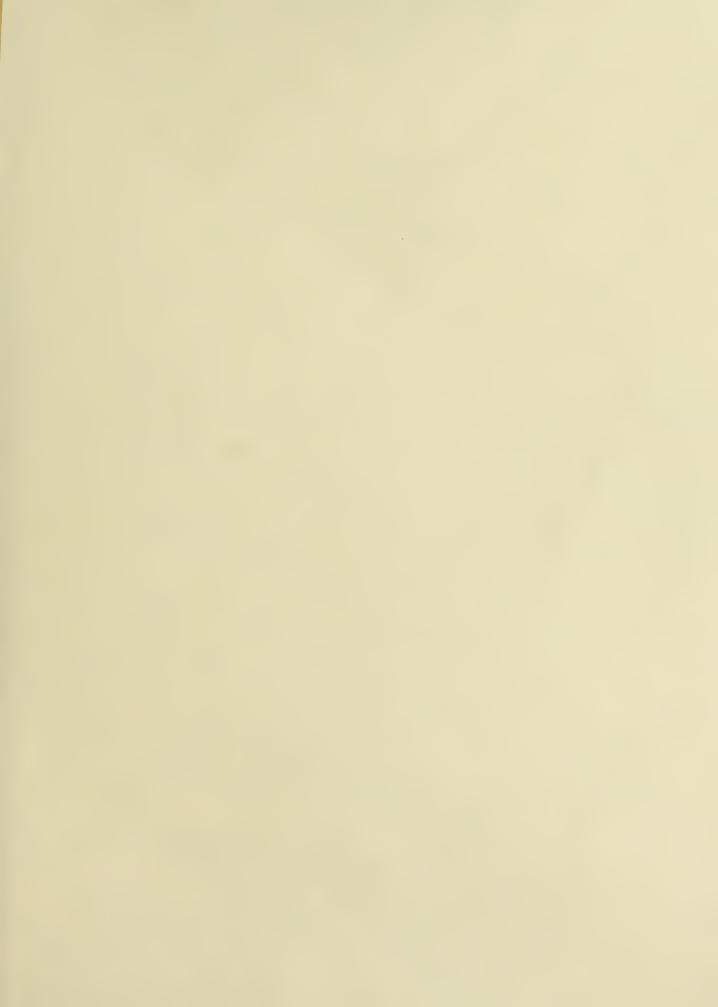


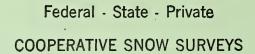
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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

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